### Random Access to file in C

Random access means we can move to any part of a file and read or write data from it without having to read through the entire file. we can access the data stored in the file in two ways.

- 1. Sequentially
- 2. Randomly

## Some points about Sequentially and Randomly accessing of Files

- If we want to access the forty fourth record then first forty three record read sequentially to reach forty four record
- In Random access data can be accessed and processed directly
- If there is no need to read each record sequentially then use Randomly access
- If we want to access a particular record random access takes less time than the Sequential access

C supports these function for random access file.

- 1. fseek() Function
- 2. ftell () Function

# fseek() Function

This function is used for setting the file position pointer at the specified bytes . fseek is a function belonging to the ANCI C standard Library and included in the file <stdio.h>. Its purpose is to change the file position indicator for the specified stream.

```
int fseek(FILE *stream pointer, long offset, int origin);
```

## **Argument meaning**

**stream\_pointer** is a pointer to the stream FILE structure of which the position indicator should be changed;

**offset** is a long integer which specifies the number of bytes from origin where the position indicator should be placed;

*origin* is an integer which specifies the origin position. *It can be:* 

- **SEEK\_SET**: origin is the start of the stream
- **SEEK\_CUR**: origin is the current position
- **SEEK\_END**: origin is the end of the stream

### ftell ( ) Function

This function return the current position of the file position pointer. The value is counted from the beginning of the file.

```
long ftell (FILE * fptr);
```

**rewind() Function:** this function resets the file pointer at the beginning of the file.

void rewind(FILE \*fptr);

**Syntax:** rewind(filepointer);